

Minutes of the Steering Committee: 12-18-02

Attending:

Adam Arkin x
Terry Hazen x
Jay Keasling
Martin Keller x
Anup Singh
David Stahl x
Judy Wall x
Joe Zhou

Judy sent Jay EM of vulgaris

Martin will give Jay's person all data on the proteomic data....

Martin sent Terry pictures of Biopanning

Joe will send stuff to Jay

Judy wants a bibliography to be posted on the webpage...

Progress Report Notes

1. Adam
 - a. Comparative Genomics Pipeline will be released next week.
 - b. Biofiles: <https://tayma.lbl.gov/perl/biofiles>
 - i. Terry and Jay have already talked to my developer Keith Keller.
 - ii. We will develop a better interface
 - iii. We will keep all data private for the time being
 - iv. But we will work out an authority model
 - v. **PLEASE TRY IT!!!! If you didn't get a password please tell me.**
 - c. A new discussion group has been made:
 - i. <http://genomics.lbl.gov/~aparkin/discus/messages/board-topics.html>
 - ii. The topic is DOE::VIMSS
 - iii. To get an account—go to user profiles and then hit instant registration. I will then approve you and you will receive a new password. You can then change your password to whatever you like.
 - iv. The board allows posting of messages, files, pictures, and the starting of new conversations.
 - v.
2. Martin
 - a. Martin is ready to run experiments.
 - i. Optimized 2D separation technique
 - ii. Can compare results to yeast.

- iii. Can get more peptides and proteins than reported.
- iv. Needs coordination with AEMC! Will coordinate with Vince, give his protocols, etc.
 - 1. Martin need biomass under stress conditions
 - a. A discussion ensued about how to coordinate experiments. Can we do one site and send the biomass out or does each site use very specific protocols to duplicate experiments at each site, Martin and Adam are worried about reproducibility in the latter strategy—others are worried that no one site is set up to do all the preparation and that shipping will change results for proteomics, complexes and metabolites. It was decided that Jay would send people to Judy's lab and then set up a west coast center for BioMass so we can compare results....
 - 2. Terry is looking for vulgaris at the FRC sites
 - a. David was going to use probes on these samples.
 - b. Will send isolates to Judy.
 - c. Terry will ultracold for storing the library of strains
 - d. Will get Derek to give Geobacter—and Terry has the culture collection for all three strains.
- v. He's also getting ready to start Biopanning!
 - 1. Terry can send soil to Diversa and Washington

3. Judy

- a. Judy has gotten all the cultures out to everyone and has settled on a bioreactor design for .
- b. Moved her lab and been trying to get a bioreactor to identify consistent growth conditions
 - i. Fermentek bioreactors in Germany: Archea and extremophiles
 - 1. No metal parts to contact culture (so sulfides can't corrode)
 - 2. Getting approval now—should be in in a few weeks.
 - 3. About 29,000Euros with oxygen electrode/temperature/pH/OD and nutrient limitation.
 - 4. Martin says make sure it is very resistant against sulfide! Judy says it's a glass oxygen electrode and pH electrode glass but Martin says this isn't enough...Martin says he knows of someone—he will send it Judy.
- c. Jay
 - i. Everyone has been trained
 - ii. Metabolite separation has started with our test organism E. coli.
 - iii. Jay is sending people to Martin for training.
 - iv. Already has coordinated with Anup.
- d. David Stahl

- i. Sergei Solya and someone else are going to FRC to get training on radiation use.
 - ii. Getting in design for the first reactor studies.
 - iii. Ready to receive material for enrichments and screening for 16S RNA and screening for sulfite reducers (genetically, dissimilating sulfite reductase.).
 - e. Anup
 - i. Talking with Judy a lot—talking about protein complexes and doing the genetic engineering of the organism itself.
 - ii. Start with cytochrome CP proteins and HSP70 proteins
 - f. Joe
 - i. Will send Adam data (Shewanella) and they will talk about experimental design.
 - ii.
 - g. Terry
 - i. Terry will send out summaries.
 - ii. Got his anaerobic glove box chamber with microscope. Setting it up to increase culturing
 - iii. Hired Gary Anderson and bought an Affy system. Also has a microbial cell project too.
 - iv. John Coates will start on 10th of January. From Illinois and Carbondale—coming in microbiology and we will collaborate
 - v. Trying to get arms around NABOR FRC
 - vi. Will set up conference calls with Judy, Matt, David and Martin
- 4. February Meeting.
 - a. We should set up a meeting in Washington
 - b. Send everyone my contact information in Washington
 - c. Set up meeting with Joe.
 - d.